

## CLAIMS

What is claimed is:

1. A spread spectrum base station comprising:  
  
means for receiving a spread spectrum signal, the spread spectrum signal including a reference signal and a message signal, the message signal having message data;  
  
means for detecting the reference signal within the received combined spread spectrum signal; and  
  
means for recovering the message data of the message signal using the reference signal.
2. The base station of claim 1 further comprising:  
  
means for recovering a carrier signal from the spread spectrum signal using the reference signal; and  
  
wherein the message data recovering means uses the recovered carrier signal to recover the message data.
3. The base station of claim 1 wherein the spread spectrum signal is in a code division multiple access format.
4. A spread spectrum base station comprising:

means for receiving a spread spectrum signal, the spread spectrum signal including a reference signal and a message signal, the message signal having message data;

means for recovering a carrier signal of the combined spread spectrum signal using the reference signal; and

means for recovering the message data using the recovered carrier signal.

5. The base station of claim 4 wherein the spread spectrum signal is in a code division multiple access format.

6. A spread spectrum base station comprising:

means for producing a message signal having message data;

means for producing a reference signal, the reference signal for use in recovering the message data from a combined spread spectrum signal;

means for combining the reference signal and the message signal as a combined signal; and

means for transmitting the combined signal as a combined spread spectrum signal.

7. A spread spectrum base station comprising:

means for producing a plurality of message signals, each message signal having message data;

means for producing a reference signal, the reference signal for use in recovering the message data from a combined spread spectrum signal;

means for combining the reference signal and the plurality of message signals as a combined signal; and

means for transmitting the combined signal as the combined spread spectrum signal.

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